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(54) Title: ANTIVIRAL PROTEINS WITH IMPROVED PROPERTIES AND METHODS THEREFOR

Gene and AA sequence

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      M L G K F S Q T C Y N S A I Q G S V L T S T C E R T N G G
1  AGGAGGACAG CTATGCTGGG CAAGTTCAGC CAGACCTGCT ACAACAGCGC GATTCAGGGC AGCGTTCTGA CCAGCACCTG CGAACGTACC AATGGTGGCT
   TCCTCCTGTC GATACGACCC GTTCAAGTCG GTCTGGACGA TGTGTGCGG CTAAGTCCCG TCGCAAGACT GGTGCTGGAC GCTTGCAATG TTACCACCGA

      Y N T S S I D L N S V I E N V D G S L K W Q P S N F I E T C R N T Q
101 ACAACACTTC TAGCATTGAT CTGAACAGCG TGATTGAGAA TGTGGATGGC TCTCTGAAT GGCAGCCGAG CAACTTCATT GAAACCTGTC GCACACCCA
   TGTGTGAAG ATCGTAACTA GACTTGTGCG ACTAATCTT ACACCTACCG AGAGACTTTA CCGTCGGCTC GTTGAAGTAA CTTTGGACAG CGTTGTGGST

      L A G S S E L A A E C K T R A Q Q F V S T K I N L D D H I A N I D
201 GCTGCGGGGC AGCTCTGAAC TGGCGGCGAG ATGCAAGACT CGCGCGCAGC AGTTTGTGAG CACCAAGATC AACCTGGACG ATCACATCGC GACATTGAT
   CGACGCGCCG TCGAGACTTG ACCGCGCTCT TACGTTCTGA GCGCGCGTCT TCAACACTCT GTGGTTCTAG TTGGACCTGC TAGTGTAGCG CTTGTAACTA

      G T L K Y E #
301 GGCACCTCGA AGTATGAATA A
   CCGTGGGACT TCATACTTAT T
  
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(57) Abstract: The invention provides novel recombinant proteins and compositions having non-naturally occurring N-terminal amino acids such as methioninne, and methods of making and using the protein for greater anti-viral activity and less toxicity than naturally occurring proteins.

WO 2005/058229 A2